

FIG. 1**NUCLEOTIDE AND AA SEQUENCE**

Nucleic acid sequence of Protease T (SEQ.ID.NO.:1)

GACCACGGCCCTGCGCCCCAGCCAGGCCTGAGGACATGAGGCGGCCGGCGGGTGC CGC
 TCCTGCTGCTGCTGTGTGTTTGGGTCTCAGAGGGCCAAGGCAGCAACAGCCTGTGGTCGCC
 CCAGGATGCTGAACCGAATGGTGGGCGGGCAGGACACGCAGGAGGGCGAGTGGCCCTGGC
 AAGTCAGCATCCAGCGCAACGGAAGCCACTTCTGCGGGGGCAGCCTCATCGCGGAGCAGT
 GGGTCCTGACGGCTGCGCACTGCTTCCGCAACACCTCTGAGACGTCCCTGTACCAGGTCC
 TGCTGGGGGCAAGGCAGCTAGTGCAGCCGGGACCACACGCTATGTATGCCCGGGTGAGGC
 AGGTGGAGAGCAACCCCTGTACCAGGGCACGGCTCCAGCGCTGACGTGGCCCTGGTGG
 AGCTGGAGGCACCAGTGCCTTACCAATTACATCCTCCCCGTGTGCCTGCCTGACCCCT
 CGGTGATCTTTGAGACGGGCATGAACTGCTGGGTCACTGGCTGGGGCAGCCCCAGTGAGG
 AAGACCTCCTGCCCCGAACCGCGGATCCTGCAGAAACTCGCTGTGCCCATCATCGACACAC
 CCAAGTGCAACCTGCTCTACAGCAAAGACACCGAGTTTGGCTACCAACCCAAAACCATCA
 AGAATGACATGCTGTGCGCCGGCTTCGAGGAGGGCAAGAAGGATGCCTGCAAGGGCGACT
 CGGGCGGCCCCCTGGTGTGCCTCGTGGGTCACTCGTGGCTGCAGGCGGGGGTGATCAGCT
 GGGGTGAGGGCTGTGCCCGCCAGAACCGCCCAGGTGTCTACATCCGTGTACCGCCACC
 ACAACTGGATCCATCGGATCATCCCCAACTGCAGTTCCAGCCAGCGAGGTGGGCGGCC
 AGAAGTGAGACCCCCGGGGCCAGGAGCCCCCTTGAGCAGAGCTCTGCACCCAGCCTGCCCG
 CCCACACCATCCTGCTGGTCCTCCCAGCGCTGCTGTTGCACCTGTGAGCCCCACCAGACT
 CATTTGTAAATAGCGCTCCTTCCCTCCCCTCTCAAATACCCCTTATTTTATTTATGTTTCTC
 CCAATAAAAACCCAGCCTGTGTGCCAGCTG

>Amino Acid Sequence of Protease T (SEQ.ID.NO.:7)

MRRPAAVPLLLLLCFGSQRAKAATACGRPRMLNRMVGGQDTQEGEWPWQVSIQRNGSHFC
 GGSLIAEQWVLTAAHCFRNTSETSLYQVLLGARQLVQPGPHAMYARVRQVESNPLYQGT
 SSADVALVELEAPVPFTNYILPVCLPDPSVIFETGMNCWVTGWGSPSEEDLLPEPRILQK
 LAVPIIDTPKCNLLYSKDTEFGYQPKTIKNDMLCAGFEEGKKDACKGDSGGPLVCLVGQS
 WLQAGVISWGEGCARQNRPGVYIRVTAHHNWIHRIIPKLQFQPARLGGQK

Protease T

Prostasin

β -Tryptase

Trypsinogen-I

Kal-1

Chymotrypsinogen

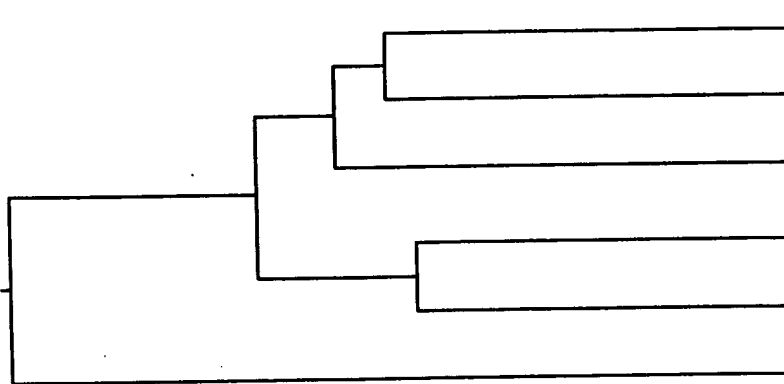


FIG. 3

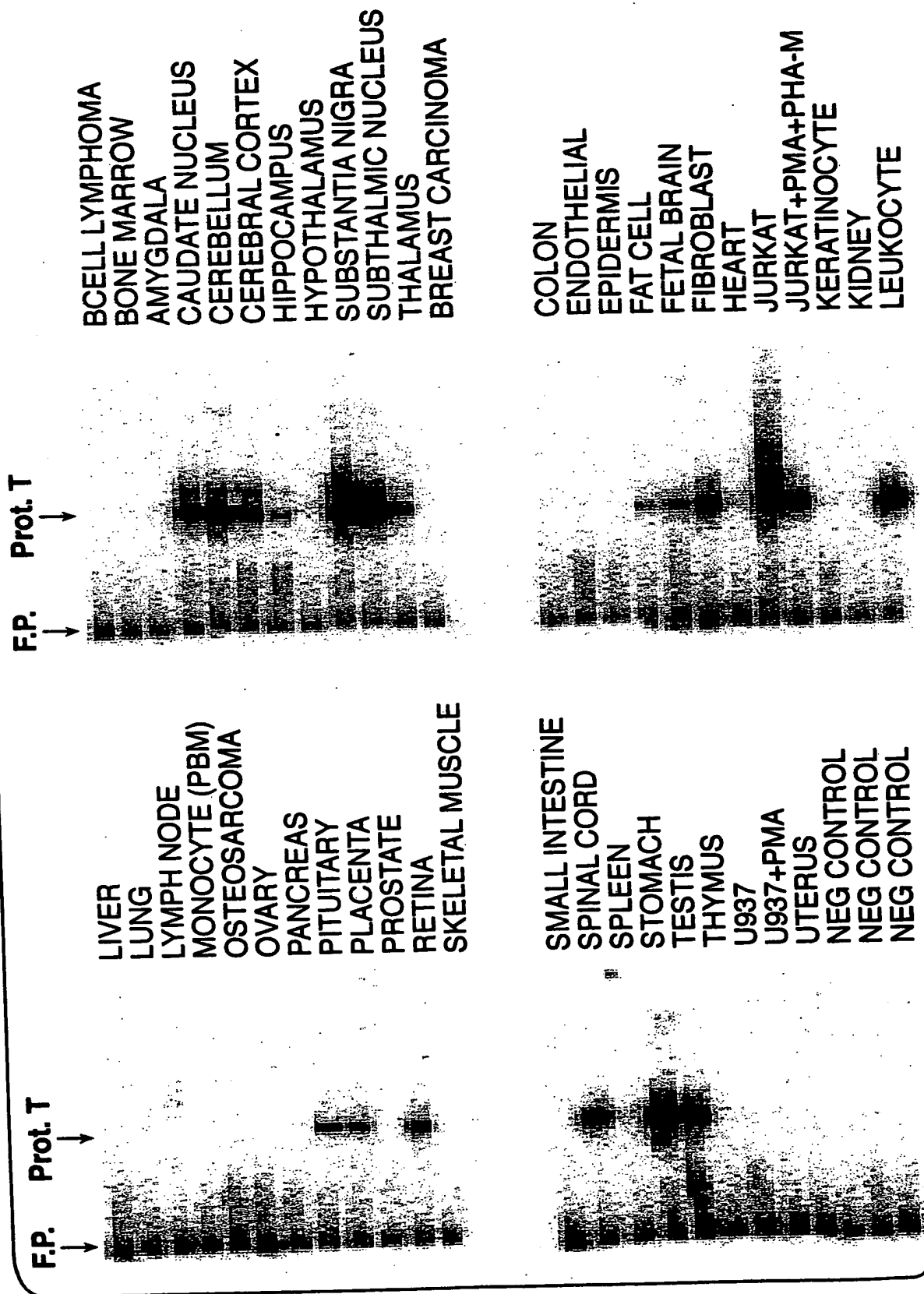


FIG. 4

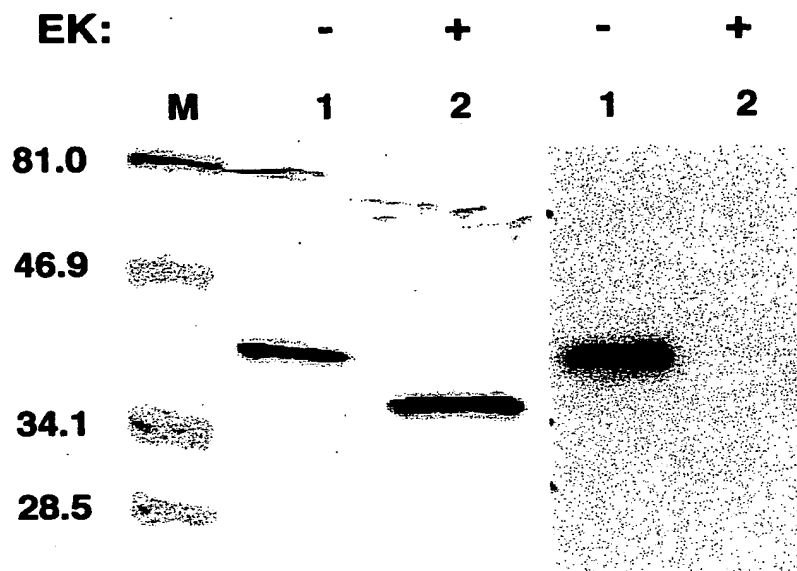
FUSION PROTEIN

Nucleic Acid sequence of PFEK-PROTT-HIS fusion protein
(SEQ.ID.NO.:8).

GAATTCACCACCATGGACAGCAAAGGTTTCGTCGCAGAAATCCCGCCTGCTCCTGCTGCTG
GTGGTGTCAAATCTACTCTTGTGCCAGGGTGTGGTCTCCGACTACAAGGACGACGACGAC
GTGGACGCGGCCGCTCTTGTGCCCCCTTTGATGATGATGACAAGATCGTTGGGGGCTAT
GCTCTAGAGGAGGGCGAGTGGCCCTGGCAAGTCAGCATCCAGCGCAACGGAAGCCACTTC
TGC GG GGGG CAG CCT CAT CG CG GAG CAG TGG GT C C T G A C G G C T G C G C A C T G C T T C C G C A A C
ACCTCTGAGACGTCCCTGTACCAGGTCTGCTGGGGGCAAGGCAGCTAGTGCAGCCGGGA
CCACACGCTATGTATGCCCCGGGTGAGGCAGGTGGAGAGCAACCCCCCTGTACCAGGGCAGC
GCCTCCAGCGCTGACGTGGCCCTGGTGGAGCTGGAGGCACCAAGTGCCCTTCACCAATTAC
ATCCTCCCCGTGTGCCTGCCTGACCCCTCGGTGATCTTTGAGACGGGCATGAACTGCTGG
GTCACTGGCTGGGGCAGCCCCAGTGAGGAAGACCTCCTGCCCCGAACCGCGGATCCTGCAG
AAACTCGCTGTGCCCATCATCGACACACCCAAGTGCAACCTGCTCTACAGCAAAGACACC
GAGTTTGGCTACCAACCCAAAACCATCAAGAATGACATGCTGTGCGCCGGCTTCGAGGAG
GGCAAGAAGGATGCCTGCAAGGGCGACTCGGGCGGCCCCCTGGTGTGCCTCGTGGGTCAG
TCGTGGCTGCAGGCGGGGGTGATCAGCTGGGGTGAGGGCTGTGCCCGCCAGAACCGCCCA
GGTGTCTACATCCGTGTACCGCCCAACCAACTGGATCCATCGGATCATCCCCAACTG
CAGTTCCAGCCAGCGAGGTTGGGCGGCCAGAAGTCTAGACATCACCATCACCATCACTAG
CGGCCGCTTCCCTTTAGTGAGGGTTAATGCTTCGAGCAGACATGATAAGATACATTGATG
AGTTTGGACAAACCACAACCTAGAATGCAGTGAAAAAATGCTTTATTGTGAAATTTGTG
ATGCTATTGCTTTATTGTAAACCATTATAAGCTGCAATAAACAAGTTGAC

Amino Acid sequence of PFEK-PROTT-HIS fusion protein
(SEQ.ID.NO.:9).

MDSKGSSQKSRLLLLLLVSNLLLCQGVVSDYKDDDDVDAAALAAPFDDDDKIVGGYALEE
GEWPWQVSIQRNGSHFCGGSLIAEQWVLTAAHCFRNTSETSLYQVLLGARQLVQPGPHAM
YARVRQVESNPLYQGTASSADVALVELEAPVPFTNYILPVCLPDPSVIFETGMNCWVTGW
GSPSEEDLLPEPRILQKLAVPIIDTPKCNLLYSKDTEFGYQPKTIKNDMLCAGFEEGKKD
ACKGDSGGPLVCLVGQSWLQAGVISWGEGCARQNRPGVYIRVTAHHNWIHRIIPKLQFQP
ARLGGQKSRHHHHHH

FIG. 5

Protease: PFEK-Protease T-HIS

FIG. 6**Protease Activity of Protease T**

- H-D-Pro-HHT-Arg-pNA
▤ H-D-Lys(CBO)-Pro-Arg-pNA
▨ H-DL-Val-Leu-Arg-pNA

